

Title (en)

Dual field of view refractive optical system for geo synchronous earth orbit

Title (de)

Refraktives optisches System mit zwei Gesichtsfeldern für geosynchrone Erdumlaufbahn

Title (fr)

Système optique réfractif à champ visuel double pour orbite basse géosynchrone

Publication

**EP 2498115 A3 20121024 (EN)**

Application

**EP 12158766 A 20120309**

Priority

US 201113044659 A 20110310

Abstract (en)

[origin: EP2498115A2] Various embodiments provide an optical system including a first lens group having a plurality of lenses; a second lens group having a plurality of lenses, the second lens group being disposed adjacent the first lens group; a third lens group having a plurality of lenses, the third lens group being disposed adjacent the second lens group; and a detector disposed behind the third lens group. A pupil of the optical system is located external to the first lens group, the second lens group and the third lens group. The second lens group is movable respective to the first lens group and the third lens group so as to convert a configuration of the optical system between a narrow field of view (NFOV) configuration and a wide field of view (WFOV) configuration.

IPC 8 full level

**G02B 13/14** (2006.01); **G02B 15/17** (2006.01)

CPC (source: EP US)

**G02B 13/14** (2013.01 - EP US)

Citation (search report)

- [XYI] US 2010177195 A1 20100715 - COLENTIER SYLVIE [FR], et al
- [Y] "Handbook of Optical Systems, Vol 3", 1 January 2007, WILEY-VCH, Weinheim, ISBN: 978-3-52-740379-0, article HERBERT GROSS ET AL: "Best Location for an Asphere Inside a System", pages: 444, XP055027832

Cited by

CN104034331A; US10670841B2; US9200966B2; US9110276B2; WO2019032158A3; WO2013109324A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2498115 A2 20120912; EP 2498115 A3 20121024**; US 2012229914 A1 20120913; US 9025256 B2 20150505

DOCDB simple family (application)

**EP 12158766 A 20120309**; US 201113044659 A 20110310